PATENT COOPERATION TREATY **PCT**

REC'D 2 1 NOV 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12641PC2-PJD/AM	FOR FURTHER ACT	NOI:	See Form PCT/IPEA/416		
International application No. PCT/AU2004/001748	International filing date 10 December 2004	(day/month/year)	Priority date (day/month/year) 10 December 2003		
International Patent Classification (IPC) or	national classification an	d IPC			
Int. Cl. ⁷ E04C 3/26					
Applicant			6		
THE UNIVERSITY OF SOUTH	ERN QUEENSLAND	et al			
This report is the international prelimina Authority under Article 35 and transmit	ary examination report, extend to the applicant accor	stablished by this Inter	national Preliminary Examining		
2. This REPORT consists of a total of 4	sheets, including this cov	ver sheet.	•		
3. This report is also accompanied by ANI	NEXES, comprising:				
a. \square (sent to the applicant and to the	e International Bureau) a	total of sheets, as for	ollows:		
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating					
X Box No. I Basis of the repo	rt 🖯		•		
Box No. II Priority					
Box No. III Non-establishme	nt of opinion with regard	to novelty, inventive	step and industrial applicability		
X Box No. IV Lack of unity of	ox No. IV Lack of unity of invention				
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documen	Certain documents cited				
Box No. VII Certain defects in	Box No. VII Certain defects in the international application				
Box No. VIII Certain observati	Box No. VIII Certain observations on the international application				
Date of submission of the demand Date of completion of the report					
8 July 2005	. 1	10 November 2005			
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001748

Box No. I Basis of the report				
1. With regard to the language , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:				
international search (under Rules 12.3 and 23.1 (b))				
publication of the international application (under Rule 12.4)				
international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
X the international application as originally filed/furnished				
the description:				
pages as originally filed/furnished pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
the claims:				
pages as originally filed/furnished				
pages* as amended (together with any statement) under Article 19	4.			
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of the drawings:				
pages as originally filed/furnished				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rt 70.2(c)).	ule			
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001748

Box No.	Lack of unity of invention				
1.	In response to the invitation to restrict or pay additional fees the applicant has:				
	restricted the claims.				
	paid additional fees.				
	paid additional fees under protest.				
	neither restricted nor paid additional fees.				
2. X	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.				
3. This	athority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:				
	omplied with.				
X	ot complied with for the following reasons:				
	The International Preliminary Report on Patentability (Chapter II) has been drawn up in respect of the entire international application but the International Preliminary Examining Authority is of the opinion that the pplication does not appear to comply with the requirements of unity of invention as set forth in the PCT egulations (Article 34(3), Rule 68(1) PCT).				
	he separate groups of invention are:				
	 Claims 1-24 are directed to a structural element wherein a force transfer between a fibre reinforced plastic reinforcement member and a polymer concrete member surrounding the reinforcement member is through polymer adhesive bonding. This arrangement is considered to comprise a first "special technical feature". Claims 25-31 are directed to a method of producing a structural above 4.5 and 5. 				
	 Claims 25-31 are directed to a method of producing a structural element formed from polymer concrete including the steps as defined in claim 25. This combination of steps is considered to comprise a second "special technical feature". 				
	ince the abovementioned groups of claims do not share any of the technical features identified, a "technical lationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the ternational application does not relate to one invention or to a single inventive concept, a priori.				
Conseq	Consequently, this report has been established in respect of the following parts of the international application:				
[2	all parts.				
	the parts relating to claims Nos.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001748

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
citations and explanations supporting such statement			

1.	1. Statement				
	Novelty (N)	Claims 1-31	YES		
		Claims	· NO		
	Inventive step (IS)	Claims 1-31	YES		
		Claims	NO		
	Industrial applicability (IA)	Claims 1-31	YES		
		Claims	NO		

2. Citations and explanations (Rule 70.7)

Novelty (N)

None of the cited documents disclose all of the features of each of the independent claims. Therefore all of the claims are novel.

Inventive Step (IS)

The claimed invention is not obvious in the light of any of the cited documents nor is it disclosed in any obvious combination of them. It is also considered that it would not be obvious to a person skilled in the art in the light of common general knowledge either by itself or in combination with any of these documents.

Industrial Applicability (IA)

The claims are related to products capable of commercial application.